ILLUMINATING TOUCH SOCKET

The Illuminating Touch Socket provides electrical contact for the transfer of data to and from the DALLAS family of iButtons. The outer rim provides a self-lining interface that matches the metal can package of the iButton, while contact with the inner face of the iButton (Data) is made through the contact in the centre of the socket.

The socket is available either with or without LED (Light Emitting Diode). When the LED is powered, the white translucent body lights up to either bright red or green. The selection of colour depends on the polarity of voltage supplied to the LED.

Supply voltage (V_{supply}) and current (I_{select}) to the LED is defined by the application. I_{select} may be chosen up to 20mA maximum. An increase in current produces better brightness. An external Resistor (R_{calc}) is calculated with:

$$R_{calc} = (V_{supply} - 2.2)/I_{select} \text{ in Ohms}$$

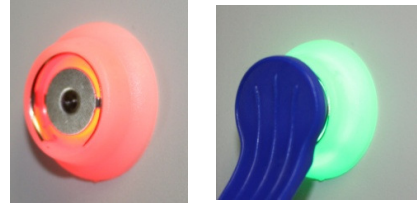The socket is designed for panel mounting through a 10mm hole, using a threaded nut to secure the socket.

Touch Socket Illuminating

Touch Socket No illumination

Touch Socket Illuminating

Part number & Description

Touch Socket No illumination
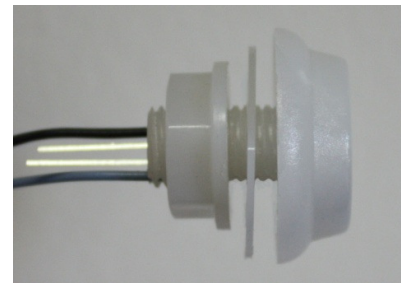(Black housing, no LED fitted)
Touch Socket With illumination 2 colour
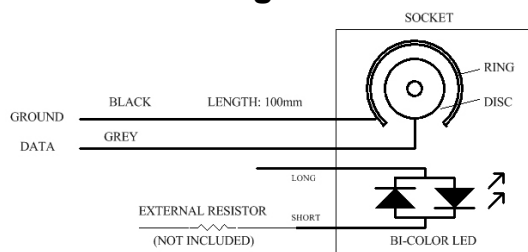(White translucent body, bi-colour LED, green & red)

Connection Diagram

SOCKET
RING
DISC
BLACK   LENGTH: 100mm
GROUND
DATA   GREY
LONG
EXTERNAL RESISTOR   SHORT
(NOT INCLUDED)
BI-COLOR LED

Dimensions

9.5mm
16mm   9mm
28mm

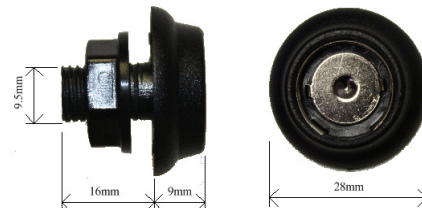### Features

- Illumination in Red or Green
- Fits in standard 10mm hole
- Panel Mount
- Secured by threaded nut
- Insulation washer between socket and panel

Specifications

- Mounting: Panel Mount
- Wire length: 100mm +/- 20mm
- Socket Colour: Black (no Led)
  White Translucent (with Led)
- Contact Coating: Nickel plated
- Led spec: 3mm bi-colour high-bright
- Led current: Up to 20mA
- Max. Panel Thickness: 8mm

The manufacturer reserves the right to change specifications without prior notice